

**REMEDIAL DESIGN/REMEDIAL ACTION (RD/RA)  
COOPERATIVE AGREEMENT  
PROGRESS REPORT**

**AGREEMENT NO.:** V-990601-02-0

**SITE NAME:** McCormick & Baxter Creosoting Co.  
Portland, OR

**PREPARED BY:** Bill Dana, Project Manager  
Oregon Dept. of Environmental Quality (DEQ)

**DATE:** February 11, 1998

**PERIOD:** October 1, 1997 through December 31, 1997

**1. PROGRESS MADE THIS PERIOD**

During this reporting period, DEQ, in conjunction with EPA, issued a Proposed Plan for an Amendment to the Record of Decision (ROD) for the site. The proposed amendment will change the on-site treatment portion of the selected soil remedy for the site to off-site disposal of highly contaminated soil. The excavations will be backfilled with clean soil, and the entire site will be capped with an additional two-feet of clean soil, as provided in the 1996 ROD. A public comment period on the proposed Amendment ran from October 1 through October 31, 1997. A formal public meeting, concerning the proposed amendment was held on October 9, 1997, and an informal meeting with a neighborhood association was held on November 11, 1997. Written comments were received from one individual and informal, verbal comments were received at both meetings. Commentors expressed some concerns about potential truck transportation of contaminated soil through the neighborhood, but were otherwise supportive of the proposed amendment. DEQ is addressing the public's concerns by evaluating rail transportation options. The ROD Amendment is expected to be signed during the next reporting period.

During the current reporting period, DEQ staff reviewed and provided written comments on several deliverables submitted by DEQ's contractor, Ecology & Environment, Inc. (E&E). Work products submitted by E&E during the reporting period included the following: draft and final versions of the Groundwater Monitoring Report for the third quarter 1997; a revised draft Remedial Design Data Summary Report, which summarizes data pertinent to the proposed ROD Amendment and to the design of the amended soil remedy for the site; an updated Conceptual Site Model (CSM), which incorporates groundwater/NAPL data obtained since the CSM was presented in the 1992 Remedial Investigation Report; and a draft Biological Treatment

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Test Plan (BTTP) which presents a strategy and methodology for evaluating biological treatment of groundwater at the site. In addition, DEQ staff reviewed two invoices, two Task Order Progress Reports and two Budget and Assumption Proposals (BAPs) submitted by E&E.

DEQ participated in a meeting with EPA, E&E, and E&E's subcontractor S.S. Papadopoulos & Associates, on November 5, 1997, to discuss the updated CSM. There were also several discussions and conference calls, involving DEQ, EPA and/or E&E, concerning the updated CSM and the proposed ROD Amendment.

In total, DEQ staff (excluding the laboratory) spent 344 hours on RD and RA activities during the reporting period. Copies of DEQ's Direct Labor Summaries, for RD/RA activities during this period, are attached.

During this reporting period, E&E staff completed supplemental Remedial Design soil sampling, and gathered data on concrete structures at the site (sumps, vaults, etc.). The data will be included in the final RD Data Summary Report, and incorporated into the soil remedial design documents. E&E also initiated procurement of supplemental treatment systems to address the elevated concentrations of inorganics periodically found in the effluent from the two groundwater treatment systems at the site. Routine, quarterly groundwater monitoring was conducted by E&E in October. In addition, E&E conducted or coordinated on-going NAPL recovery, wastewater treatment system operation and maintenance, and general site security and maintenance.

E&E issued Task Order Progress Reports, describing these and other activities, on November 17, 1997 (for the period September 28 through October 25, 1997), on December 12, 1997 (for the October 26 through November 29, 1997), and on January 19, 1998 (for the period November 30 through January 3, 1997). Copies of these reports are attached.

## **2. BUDGET STATUS SUMMARY**

Budget status summaries are included in the attached Task Order Progress Reports from E&E, and in the attached DEQ accounting tables. Note that although costs are reported for both Remedial Action and Remedial Design, EPA did not award Remedial Design funds to DEQ until January 1998.

## **3. SCHEDULE STATUS**

The schedule for design and implementation of the soil remedy continues to be impacted by the results of the dioxin sampling conducted in December 1996, and in May 1997, and the subsequent decision by DEQ and EPA to change the soil remedy

through a ROD Amendment. As stated above, a Proposed Plan for the ROD Amendment was issued on October 1, 1997 and the public comment period closed on October 31, 1997. Design of the soil remedy cannot be completed, until DEQ and EPA make a final decision concerning the proposed ROD Amendment. However, E&E will initiate the preliminary design. Groundwater remedy enhancement tasks are also somewhat behind schedule, as a number of issues were raised at the November 5 meeting, which have not yet been resolved, concerning the updated CSM. Updated schedules for RD and RA activities were recently received from E&E. The schedules are oversized and in color and cannot be readily duplicated by DEQ. A copy of the schedules will be hand-delivered to you today.

#### **4. ISSUES AND/OR PROBLEMS ENCOUNTERED AND RESOLUTION**

As indicated above, there were two significant issues/problems during the reporting period. The first is the need to change the soil remedy, to better address the dioxin contamination at the site. As stated above, a Proposed Plan has been issued, and a ROD Amendment is in progress. The second issue concerns the adequacy of the CSM for the site. The challenge is to make the CSM as clear and accurate as possible, while continuing to move forward with enhancement of the selected groundwater remedy. DEQ, E&E and EPA are continuing discussions on this subject and expect to attain resolution soon.

#### **5. ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD**

During the next reporting period (January 1 through March 31, 1998), DEQ and EPA will sign a ROD Amendment, concerning the soil remedy. Preliminary (30% completion) soil remedial design documents will be submitted by E&E. E&E will also submit an Aquifer Investigation Plan (AQUIP) Data Gap Summary, based on the updated Conceptual Site Model. A meeting will be held for DEQ, EPA and E&E to discuss and reach consensus on the data gaps. First quarter 1998 groundwater monitoring will be conducted, and a Groundwater Monitoring Report for the fourth quarter 1997 will be submitted. DEQ will issue at least one fact sheet to the public. Finally, DEQ and E&E will complete installation of pilot, supplemental treatment units to the existing groundwater treatment systems, to address the elevated levels of zinc and copper periodically found in treatment system effluent.

attachments

## TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5  
 E & E Invoice No.: 72947  
 Site Name: McCormick & Baxter Remedial Design/Remedial Action  
 E & E Project No.: OH4000  
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle  
 Date: November 17, 1997  
 Period: September 28 through October 25, 1997

### 1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete <sup>a</sup>
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$3,811.18	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$3,081.46	\$18,593.52	\$55,914.00	30%
4-RD Subcontractor Procurement	\$108.10	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$4,508.59	\$4,508.59	\$7,214.00	85%
6-RD Data Acquisition	\$11,454.54	\$12,117.84	\$30,476.00	40%
7-Sample Analysis	\$7,317.00	\$7,317.00	\$8,000.00	0%
8-RD Data Validation	\$0.00	\$0.00	\$1,979.00	0%
9-RD Data Management	\$1,683.14	\$1,683.14	\$21,367.00	10%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$(433.23)	\$20,288.15	\$50,119.00	40%
<b>RD Subtotal</b>	<b>\$31,530.78</b>	<b>\$69,340.96</b>	<b>\$179,558.00</b>	<b>35%</b>
21-RA Planning and Support	\$1,169.99	\$11,732.02	\$53,366.00	25%
22-RA Site-Specific Plans	\$27,317.69	\$82,832.36	\$100,746.00	85%
23-Construction Contractor Procurement	\$296.98	\$4,761.21	\$12,648.00	35%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$199.18	\$199.18	\$1,939.00	10%
27-RA Implementation	\$39,116.97	\$138,207.99	\$523,515.00	25%
<b>RA Subtotal</b>	<b>\$68,100.81</b>	<b>\$237,732.76</b>	<b>\$692,214.00</b>	<b>25%</b>
<b>TOTAL</b>	<b>\$99,631.59</b>	<b>\$307,073.72</b>	<b>\$871,772.00</b>	<b>35%</b>

<sup>a</sup> Percent complete represents proportion of authorized work completed to date.

## 2. PROGRESS MADE DURING THE REPORTING PERIOD

**Task 2: RD Site Specific Plans.** Prepared Final Supplemental RD Soil Sampling Plan. Note that these hours were originally incurred under Task 11 before Task 2 was opened.

Individual	Role	Hours	Activity
K. Smith	Engineer	24	Finalize Supplemental RD Sampling Plan
K. Connors	Engineer	16	Finalize Supplemental RD Sampling Plan

**Task 3: RD Project Administration.** During this period, E & E submitted the final Proposed Plan and assisted DEQ with preparation of the ROD Amendment. E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	6	Project management, Proposed Plan, ROD Amendment, invoice preparation
J. Montgomery	Program Manager	11	Oversight of project management activities, ROD Amendment
P. Bourdage	Technical Editor	4.5	Proposed Plan/ROD Amendment editing
K. Smith	Engineer	5.5	Invoice preparation

**Task 4: RD Subcontractor Procurement.** Activity on this task was limited to subcontract administration during this reporting period.

Individual	Role	Hours	Activity
M Wright	Subcontract Coordinator	1	Subcontract administration

**Task 5: RD Community Relations.** Kevin Smith and Julie Wroble prepared for and attended a public meeting on October 9, 1997 in Portland. The primary focus of the meeting was to discuss the changes to the soil remedy contained in the Proposed Plan. E & E also prepared figures and handouts for the meeting.

Individual	Role	Hours	Activity
K. Smith	Engineer	22.5	Public meeting preparation and attendance
J. Wroble	Risk Assessor	11	Public meeting preparation and attendance
E. Martin	CADD Operator	8	Figures
M. Ehle	Graphics	3	Figures
F. Cramer	Word Processor	1	Word processing support

**Task 6: RD Data Acquisition.** E & E initiated the supplemental soil sampling field event on September 22, 1997. During this field work E & E collected 56 surface and sub-surface soil samples and investigated the thickness of concrete slabs across the site.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	2	Field activity support
C. Nancarrow	Engineer	55.5	Field sampling
E. Miller	Technician	55	Field sampling

**Task 9: RD Data Management.** Following the field activities conducted under Task 6, E & E began the process of transferring the field notes and data into GIS. E & E prepared sample collection summary tables to assist in organizing the analytical data when it is received from the laboratory.

Individual	Role	Hours	Activity
K. Smith	Engineer	8	Reviewed collection summary, organized GIS activity
C. Nancarrow	Engineer	11.5	Reduced field notes, prepared collection summary
A. Hanson	GIS operator	2	Revised GIS figures

**Task 11: Preliminary Design.** E & E initiated preparation of the Revised Draft Data Summary Report during this period. E & E reviewed past DEQ and EPA comments on the Draft Data Summary Report and began modifying the text to address the comments.

Individual	Role	Hours	Activity
K. Connors	Engineer	-16	Time card correction
R. Earlywine	Engineer	12	Data Summary report preparation

**Task 21: RA Planning and Support/Project Administration.** During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	2	Project management
J. Montgomery	Program Manager	3	Oversight of project management activities, resource allocation, communication with DEQ.
K. Smith	Engineer	5.5	Invoice preparation

**Task 22: RA Site Specific Plans.** E & E finalized the AQUIP Data Summary Report and delivered the document to DEQ on September 26, 1997. The draft Conceptual Site Model (CSM.) Report was finalized and delivered to DEQ on October 20, 1997. E & E also finalized the draft Biological Treatment Test Plan (BTTP) and submitted it to DEQ for review on October 24, 1997.

Individual	Role	Hours	Activity
D. Shivjiani	Senior Project Engineer	4	Biological Treatment Test Plan (BTTP) report preparation guidance and technical review.
P. Bourdage	Editor	18.75	Data Summary, CSM, and BTTP editing.
J. Montgomery	Program Manager	26	AQUIP Data Summary document review
D. Anderson	Hydrogeologist	99	AQUIP Data Summary report preparation, file review, data organization, CSM document preparation, computer modeling, and data interpretation.
K. Smith	Engineer	18	Tracked progress of AQUIP work activities, organized BTTP document preparation requirements, reviewed sections of the BTTP. Reviewed AQUIP data summary report.
C. Nancarrow	Engineer	7	BTTP report preparation, technology research and evaluation, work plan preparation.
M. Witnauer	Geologist	91	AQUIP data summary report preparation, conceptual site model computer work.
E. Martin	CAD operator	61	Borehole coordinates/coordinate system reconciliation/CSM graphics
A. Showers	Graphics	3.5	AQUIP CSM figure production.
E. Hamlin	Clerical	-7.25	Time sheet correction.
F. Cramer	Clerical	12.5	Word processing.
M.A. Wright	Clerical	2	Word processing
E. Hamlin	Word Processor	24.25	Data summary, CSM, and BTTP word processing
A. Saxton	Clerical	2	Word processing.
J. Mihalek	Clerical	23	Data entry, document publication, word processing

**Task 23: Construction Contractor Procurement.** E & E completed execution of the various subcontracts required for on-going remedial actions.

Individual	Role	Hours	Activity
M. Wright	Subcontract Coordinator	3	Subcontract administration

**Task 26: RA Data Validation.** E & E conducted data validation on one effluent sample results. One out of every ten samples will be validated by E & E.

Individual	Role	Hours	Activity
D. Ikeda	Chemist	3	Data validation

**Task 27: RA Implementation.** During this period continued to provide routine oversight and management of on-going site activities and remedial actions. E & E initiated preparation of the third quarter 1997 Quarterly Report during this period. E & E received groundwater analytical results from DEQ's laboratory and entered the data into the site data base.

E & E began conducting data analysis and prepared graphs for each of the six pressure transducers that are installed at the site. Analysis of the pressure transducer data is being conducted to attempt to determine trends in NAPL extraction activities. The graphs will be presented as appendices in the quarterly reports.

Individual	Role	Hours	Activity
D. Ikeda	Chemist	-3	Timecard correction.
K. Smith	Engineer	64.5	Provided regular communication with site technician to evaluate site activities.
D. Anderson	Hydrogeologist	17	Site inspection of FWDA NAPL extraction system operation and site technician data collection activities.
M. Witnauer	Geologist	47	Site activities including pressure transducer data downloading, collection of NAPL measurements, inspection of the FWDA NAPL extraction and treatment system operation.
C. Nancarrow	Engineer	73	Data evaluation, preparation of graphs and design of database queries.
E. Miller	Technician	2	Computer entry of effluent analytical data.
J. Mihalek	Clerical	36.5	Quarterly report data entry, word processing

### 3. ISSUES OF IMPORTANCE.

None at this time.

### 4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

### 5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Attend November 5, 1997 meeting to discuss draft CSM and groundwater remedy;
- Complete supplemental soil sampling activities;
- Receive comments and revise the BTTP;
- Finalize the ROD Amendment;
- Prepare draft budget and assumptions proposal;
- Submit the draft Soil Data Summary Report incorporating supplemental soil sampling data; and
- Attend November 11, 1997 public meeting.



## **6. DELIVERABLES SUBMITTED**

- AQUIP Data Summary Report submitted on September 26, 1997;
- AQUIP Conceptual Site Model submitted on October 20, 1997;
- Biological Treatment Test Plan submitted on October 24, 1997;
- Draft Record of Decision Amendment submitted on October 24, 1997.

## **7. KEY PERSONNEL CHANGES**

No personnel changes have occurred during this reporting period.

## **8. SUBCONTRACTING**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples and supplemental soil samples.

## **9. DATA GENERATED**

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports. Supplemental soil sampling activities are ongoing, results will be reported in the revised draft data summary report.

## **10. MBE, WBE, SBRA INVOLVEMENT**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

## **11. LABORATORY SERVICES**

Sound Analytical Services was utilized to analyze the weekly effluent water samples and supplemental soil samples.

## TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5  
 E & E Invoice No.: 73111  
 Site Name: McCormick & Baxter Remedial Design/Remedial Action  
 E & E Project No.: OH4000  
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle  
 Date: December 12, 1997  
 Period: October 26 through November 29, 1997

### 1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete <sup>a</sup>
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$5,294.49	\$23,888.01	\$55,914.00	40%
4-RD Subcontractor Procurement	\$0.00	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$1,150.84	\$5,659.42	\$7,214.00	95%
6-RD Data Acquisition	\$3,929.92	\$16,047.76	\$30,476.00	90%
7-Sample Analysis	\$2,575.00	\$9,892.00	\$8,000.00	100%
8-RD Data Validation	\$501.29	\$501.29	\$1,979.00	100%
9-RD Data Management	\$15,769.42	\$17,452.55	\$21,367.00	85%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$25,960.65	\$46,248.80	\$50,119.00	95%
<i>RD Subtotal</i>	<i>\$55,181.60</i>	<i>\$124,522.57</i>	<i>\$179,558.00</i>	<i>80%</i>
21-RA Planning and Support	\$8,712.73	\$20,444.75	\$53,366.00	30%
22-RA Site-Specific Plans	\$5,768.81	\$88,601.17	\$100,746.00	95%
23-Construction Contractor Procurement	\$320.36	\$5,081.57	\$12,648.00	45%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$25.50	\$224.67	\$1,939.00	15%
27-RA Implementation	\$42,920.07	\$181,128.06	\$523,515.00	35%
<i>RA Subtotal</i>	<i>\$57,747.47</i>	<i>\$295,480.23</i>	<i>\$692,214.00</i>	<i>45%</i>
<b>TOTAL</b>	<b>\$112,929.07</b>	<b>\$420,002.80</b>	<b>\$871,772.00</b>	<b>55%</b>

<sup>a</sup> Percent complete represents proportion of authorized work completed to date.

## 2. PROGRESS MADE DURING THE REPORTING PERIOD

**Task 3: RD Project Administration.** During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period. E & E also prepared a budget and assumptions proposal (BAP), dated December 2, 1997, for continuation of Soil RD activities. Finally, E & E assisted DEQ with preparation of the ROD Amendment.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	14	Project admin. BAP prep. ROD Amendment
J. Montgomery	Program Manager	2	Program Management oversight
K. Smith	Engineer	32.5	Invoice prep. BAP prep
J. Wheeler		1.5	BAP prep (cost spreadsheets)

**Task 5: RD Community Relations.** Kevin Smith prepared for and attended a public meeting on November 11, 1997. The primary focus of the meeting was to discuss the proposed changes to the soil remedy and to listen to concerns of the Cathedral Park Community Group.

Individual	Role	Hours	Activity
K. Smith	Engineer	8	Public meeting preparation and attendance

**Task 6: RD Data Acquisition.** E & E completed the tasks in the *RD Supplemental Sampling Plan* on October 27, 1997. During this field work E & E surveyed the supplemental soil sampling locations and buried pilings, collected information on the production wells, and gathered additional concrete dimensional data.

Individual	Role	Hours	Activity
C. Nancarrow	Engineer	33	Field surveying
T. Angus		13	Field surveying

**Task 8: RD Data Validation.** E & E conducted data validation on soil samples collected during the supplemental soil sampling event.

Individual	Role	Hours	Activity
M. Woodke	Chemist	7	Data validation
A. Turner	Chemist	0.5	Data validation

**Task 9: RD Data Management.** Following the field activities conducted under Task 6, E & E transferred the field notes and data into GIS and CAD. With information obtained from the additional dioxin sampling and supplemental soil sampling events, E & E updated the data tables and GIS maps for use in the *Revised Draft Remedial Design Data Summary Report*.

Individual	Role	Hours	Activity
K. Smith	Engineer	23.5	Reviewed data tables, CAD figures, and GIS figures
C. Nancarrow	Engineer	27.5	Reduced field notes, coordinated GIS and CAD revisions, organized and prepared data tables
R. Earlywine	Engineer	46	Organized and prepared data tables
J. Wroble	Risk Assessor	6	Prepared data tables
E. Martin	CAD Operator	28	Prepared CAD figures
G. Randall	Data manager	16	Prepared data tables
A. Hanson	GIS operator	81	Prepared GIS figures
A. Saxton	GIS operator	1	Word processing

**Task 11: Preliminary Design.** E & E finalized the *Revised Draft Remedial Design Data Summary Report* and delivered the document to DEQ for review on November 26, 1997.

Individual	Role	Hours	Activity
S. Fleming	Project manager	12	Data Summary Report preparation guidance and technical review
P. Bourdage	Editor	18	Data summary editing
K. Smith	Engineer	40.5	Organized Data Summary Report preparation, report review
R. Earlywine	Engineer	105	Data Summary Report preparation
C. Nancarrow	Engineer	87	Data Summary Report preparation
J. Wroble	Risk Assessor	18	Data Summary Report preparation
M. Jones	Engineer	4	Truck/rail transport issues
E. Martin	CAD Operator	26	Prepared CAD figures for Data Summary Report
F. Cramer	Clerical	8.5	Word processing
E. Hamlin	Word Processor	16.5	Word processing
A. Saxton	Clerical	5	Document publication
M. Elliot	Clerical	4	Document publication

**Task 21: RA Planning and Support/Project Administration.** During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period. E & E (Fleming, Montgomery, Anderson, and Smith) attended the monthly meeting on November 5, 1997. The primary topics of this meeting was groundwater RA issues and the CSM. E & E also began drafting a budget and assumptions proposal for continued groundwater RA activities.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	20	Project Admin, invoice prep, monthly meeting
J. Montgomery	Program Manager	8	Monthly meeting

Individual	Role	Hours	Activity
D. Shivjani	Senior Project Engineer	1	BAP consultation
K. Smith	Engineer	33.5	Invoice prep, monthly meeting, BAP prep
D. Anderson	Hydrogeologist	16	Monthly meeting, BAP prep
J. Wheeler		1.5	BAP prep (spreadsheets)
J. Mihalek	Clerical	2	BAP word processing

**Task 22: RA Site Specific Plans.** E & E finalized the draft Revised CSM deliverable. In addition, E & E participated in several discussions/conference calls on the approach to revise the CSM document. E & E also conducted limited trend analysis of NAPL thicknesses and extraction rates (at the request of DEQ) to help refine the scope for future CSM revisions. E & E also began revising CSM site maps per DEQ and EPA comments.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	7	CSM review
P. Bourdage	Editor	3	CSM production
K. Smith	Engineer	11	CSM preparation/ conference call
D. Anderson	Hydrogeologist	41	CSM prep/revisions, trend analysis
A. Showers	Graphics	-3.5	Time sheet correction
A. Showers	Graphics	3.5	CSM graphics
J. Mihalek	Clerical	6	CSM Word processing

**Task 23: Construction Contractor Procurement.** E & E executed a team member subcontract agreement with Hong-West for field sampling assistance and issued an amendment to Sound Analytical Services for additional effluent sample analysis.

Individual	Role	Hours	Activity
M. Wright	Subcontract Coordinator	5	Subcontract administration

**Task 26: RA Data Validation.** E & E initiated data validation on one effluent sample result. One out of every ten samples will be validated by E & E.

Individual	Role	Hours	Activity
R. Peroff	Chemist	0.5	Data validation

**Task 27: RA Implementation.** During this period, E & E continued to provide routine oversight and management of on-going site activities and remedial actions. E & E finalized the third quarter 1997 Quarterly Report and delivered it to DEQ on November 6, 1997. E & E also continued ion exchange vendor information collection and evaluation. Finally, E & E completed quarterly groundwater monitoring October 27 through 31, 1997.

Individual	Role	Hours	Activity
D. Shivjiani	Senior Project Engineer	3	Evaluate ion exchange vendor info
P. Bourdage	Editor	3	Edited quarterly report
K. Smith	Engineer	28.5	Quarterly report preparation and review, ion exchange vendor info review/eval
D. Anderson	Hydrogeologist	15.5	Groundwater RA oversight
C. Nancarrow	Engineer	32	Quarterly report preparation, ion-exchange unit vendor correspondence
M. Jones	Engineer	12	NAPL/water measurements
M. Witnauer	Geologist	74	Groundwater sampling, field support, quarterly report prep
E. Martin	CAD Operator	0.5	CAD figure for quarterly report
E. Miller	Technician	46.75	Groundwater sampling
E. Hamlin	Word Processor	3.5	Word processing
A. Saxton	Clerical	3	Document publication
M. Elliot	Clerical	1	Document publication
F. Cramer	Clerical	1	Word processing
J. Mihalek	Clerical	4	Word processing
A. Showers	Graphics	4.5	Pressure transducer graphs for quarterly report

### 3. ISSUES OF IMPORTANCE.

None at this time.

### 4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

### 5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Purchase of ion exchange unit manufactured by Aero-Terra-Aqua (ATA) and installation in the FWDA treatment system;
- Submit Soil RA and Groundwater RA BAPs;
- Begin 30% Design Documents;
- Receive comments on Draft RD Data Summary Report and BTTP, and revise documents accordingly; and
- Receive final direction on CSM revisions.

## **6. DELIVERABLES SUBMITTED**

- *Remedial Actions Quarterly Report, Report Period: July 1997 - September 1997* submitted on November 6, 1997; and
- *Revised Draft Remedial Design Data Summary Report* submitted on November 26, 1997.

## **7. KEY PERSONNEL CHANGES**

No personnel changes have occurred during this reporting period.

## **8. SUBCONTRACTING**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

## **9. DATA GENERATED**

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports. Supplemental soil sampling data collection activities were reported in the revised draft data summary report.

## **10. MBE, WBE, SBRA INVOLVEMENT**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

## **11. LABORATORY SERVICES**

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

## TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5  
 E & E Invoice No.: 73120  
 Site Name: McCormick & Baxter Remedial Design/Remedial Action  
 E & E Project No.: OH4000  
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle  
 Date: January 19, 1998  
 Period: November 30, 1997 through January 3, 1998

### 1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete <sup>a</sup>
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$3,811.18	\$3,594.00	100%
3-RD Project Administration	\$5,246.61	\$29,134.62	\$55,914.00	50%
4-RD Subcontractor Procurement	\$0.00	\$1,021.54	\$895.00	100%
5-RD Community Relations	\$431.03	\$6,090.45	\$8,904.00	95%
6-RD Data Acquisition	\$0.00	\$16,047.76	\$30,476.00	90%
7-Sample Analysis	\$0.00	\$9,892.00	\$10,302.00	100%
8-RD Data Validation	\$0.00	\$501.29	\$1,979.00	100%
9-RD Data Management	\$2,808.14	\$20,260.70	\$21,367.00	95%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$17,459.01	\$63,707.81	\$78,218.00	95%
14-Pre-Final/Final Design	\$0.00	\$0.00	\$59,531.00	0%
<b>RD Subtotal</b>	<b>\$25,944.79</b>	<b>\$150,467.35</b>	<b>\$271,180.00</b>	<b>60%</b>
21-RA Planning and Support	\$2,577.61	\$23,022.36	\$53,366.00	45%
22-RA Site-Specific Plans	\$1,119.86	\$89,721.03	\$100,746.00	95%
23-Construction Contractor Procurement	\$0.00	\$5,081.57	\$37,941.00	45%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$224.67	\$1,939.00	15%
27-RA Implementation	\$18,620.37	\$199,748.43	\$541,453.00	35%
<b>RA Subtotal</b>	<b>\$22,317.84</b>	<b>\$317,798.06</b>	<b>\$735,445.00</b>	<b>45%</b>
<b>TOTAL</b>	<b>\$48,262.63</b>	<b>\$468,265.41</b>	<b>\$1,006,625.00</b>	<b>55%</b>

<sup>a</sup> Percent complete represents proportion of authorized work completed to date.



## 2. PROGRESS MADE DURING THE REPORTING PERIOD

**Task 3: RD Project Administration.** During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period. E & E also prepared a revised budget and assumptions proposal (BAP), dated December 19, 1997, for continuation of Soil RD activities. Finally, E & E assisted DEQ with preparation of the ROD Amendment.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	35	Project admin. BAP prep. ROD Amendment
J. Montgomery	Program Manager	2	Program Management oversight
K. Smith	Engineer	3	Invoice prep. BAP prep

**Task 5: RD Community Relations.** Travel costs and miscellaneous ODCs for the November 1997 public meeting were posted to the project during this period.

**Task 6: RD Data Acquisition.** No activities were conducted during this period.

**Task 8: RD Data Validation.** No activities were conducted during this period.

**Task 9: RD Data Management.** No activities were conducted during this period. The hours shown below are incorrect. These hours will be adjusted in the subsequent invoice.

Individual	Role	Hours	Activity
R. Earlywine	Engineer	23	Time sheet error.

**Task 11: Preliminary Design.** E & E initiated preparation of the 30% soil design documents during this period. The 30% design submittals will include drawings, specification section 01010 - Scope of Work, the specification's Table of Contents, the Basis of Design report, a preliminary cost estimate, and a preliminary schedule. The 30% design documents will be submitted to DEQ on January 16, 1998.

Individual	Role	Hours	Activity
S. Fleming	Project manager	7	Preliminary soil design activity oversight
K. Smith	Engineer	42	Preliminary soil design organization, scoping, and oversight.
R. Earlywine	Engineer	61	Preparation of Basis of Design report and construction cost estimate.
C. Nancarrow	Engineer	125	Preparation of preliminary specification sections, Basis of Design report, and five (5) design drawings.
E. Hamlin	Word Processor	3.25	Word processing.
A. Saxton	Clerical	0.25	Word processing, publications support.
A. Showers	Graphics	0.25	Graphic assistance

**Task 21: RA Planning and Support/Project Administration.** During this period, E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities and prepared the invoice for the previous reporting period. E & E continued to prepare the cost proposal to revise the CSM.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	12	Project Admin, invoice prep, cost proposal review
J. Montgomery	Program Manager	2	Monthly project oversight
K. Smith	Engineer	3	RA project management, invoice review
C. Nancarrow	Engineer	5	Invoice preparation
J. Mihalek	Clerical	2	Word processing
M. Elliott	Clerical	1.5	Word processing

**Task 22: RA Site Specific Plans.** E & E participated in several discussions/conference calls regarding the approach to revise the CSM document.

Individual	Role	Hours	Activity
J. Montgomery	Program Manager	1	Revised CSM scoping discussion
S. Fleming	Project Manager	2	Revised CSM scoping discussion
D. Anderson	Hydrogeologist	7	Revised CSM discussions
A. Showers	Graphics	-3.5	Time sheet correction
J. Mihalek	Clerical	2	CSM Word processing

**Task 23: Construction Contractor Procurement.** No activities were conducted during this period.

**Task 26: RA Data Validation.** No activities were conducted during this period.

**Task 27: RA Implementation.** During this period, E & E continued to provide routine oversight and management of on-going site activities and groundwater remedial actions. E & E initiated purchase of the ATA Aqua-Fix metals removal system for the FWDA treatment system during this period.

Individual	Role	Hours	Activity
K. Smith	Engineer	8	Site operation subcontract oversight, schedule of site activities.
D. Anderson	Hydrogeologist	7	Site inspections.
C. Nancarrow	Engineer	3.5	Ion exchange equipment purchase
M. Witnauer	Geologist	6	Site inspections, Data collection.
J. Mihalek	Clerical	6	Quarterly groundwater data entry

### **3. ISSUES OF IMPORTANCE.**

None at this time.

### **4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION**

None at this time.

### **5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD**

- ! Submit Soil RA and Groundwater RA BAPs;
- ! Submit 30% Design Documents;
- ! Receive comments on Draft RD Data Summary Report and BTTP, and revise documents accordingly; and
- ! Receive final direction on CSM revisions.

### **6. DELIVERABLES SUBMITTED**

- ! Soil Design cost proposal submitted on December 19, 1997.

### **7. KEY PERSONNEL CHANGES**

No personnel changes have occurred during this reporting period.

### **8. SUBCONTRACTING**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

### **9. DATA GENERATED**

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports. Supplemental soil sampling data collection activities were reported in the revised draft data summary report.

### **10. MBE, WBE, SBRA INVOLVEMENT**

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound

Analytical Services was utilized to analyze the weekly effluent water samples.

## **11. LABORATORY SERVICES**

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Action ( )  
For Month of October 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Meetings	1.50
	Coordination	23.00
	Document Review	9.50
	Employee Total:	34.00
Bill Dana	Travel	.50
	Communication	8.50
	Coordination	6.00
	Document Prep	.50
	Document Review	5.00
	Site Visits	1.00
	Financial Management	.50
	Employee Total:	22.00
Jill Kiernan	Document Review	.50
	Employee Total:	.50
		56.50

WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Design ( )  
For Month of October 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	8.50
	Document Review	2.50
	Employee Total:	11.00
Bill Dana	Travel	1.50
	Meetings	6.50
	Communication	13.00
	Coordination	17.00
	Document Prep	6.00
	Document Review	2.50
	Site Visits	.50
	Analysis and Planning	.50
	Financial Management	1.50
	Employee Total:	49.00
Kevin Dana	Records Management	3.00
	Employee Total:	3.00
Bruce Gilles	Communication	1.50
	Employee Total:	1.50
Karin Koslow	Meetings	1.50
	Communication	.50
	Employee Total:	2.00
Barbara Petzing	Clerical/Admin Support	5.50
	Employee Total:	5.50
Lon Revall	Document Review	1.00
	Employee Total:	1.00
		73.00

WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Action ( )  
For Month of November 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Meetings	5.50
	Coordination	7.00
	Employee Total:	12.50
Bill Dana	Travel	.50
	Meetings	13.00
	Communication	5.50
	Coordination	5.00
	Document Prep	3.00
	Document Review	5.00
	Employee Total:	32.00
Bruce Gilles	Meetings	5.00
	Communication	4.50
	Document Prep	2.00
	Document Review	7.00
	Analysis and Planning	6.00
	Employee Total:	24.50
Jill Kiernan	Meetings	7.00
	Document Review	4.00
	Employee Total:	11.00
		80.00

WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Design ( )  
For Month of November 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	5.00
	Employee Total:	5.00
Bill Dana	Travel	.50
	Meetings	2.50
	Communication	6.50
	Coordination	6.50
	Document Prep	15.00
	Document Review	.50
	Employee Total:	31.50
Kevin Dana	Document Prep	1.00
	Analysis and Planning	.50
	Records Management	.50
	Employee Total:	2.00
Barbara Petzing	Clerical/Admin Support	5.50
	Employee Total:	5.50
		44.00



WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Action ( )  
For Month of December 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Jo Brooks	Coordination	.50
	Employee Total:	.50
Steve Campbell	Coordination	9.50
	Document Review	6.00
	Employee Total:	15.50
Bill Dana	Meetings	2.00
	Communication	5.00
	Coordination	2.00
	Document Review	8.50
	Financial Management	1.00
	Employee Total:	18.50
Bruce Gilles	Meetings	3.50
	Communication	1.00
	Analysis and Planning	1.00
	Employee Total:	5.50
Daniel Murphy	Clerical/Admin Support	.50
	Employee Total:	.50
		40.50

WMC TIME ACCOUNTING SYSTEM  
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR  
(Does not include DEQ lab labor)  
Business Office Project  
McCormick & Baxter Remedial Design ( )  
For Month of December 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	8.00
	Document Review	5.50
	Employee Total:	13.50
Bill Dana	Meetings	1.50
	Communication	8.50
	Coordination	5.50
	Document Prep	6.50
	Document Review	7.00
	Financial Management	1.00
	Employee Total:	30.00
Kevin Dana	Records Management	.50
	Employee Total:	.50
Jill Kiernan	Coordination	.50
	Document Review	2.00
	Employee Total:	2.50
Joe Mollusky	Meetings	1.00
	Employee Total:	1.00
Daniel Murphy	Clerical/Admin Support	1.00
	Employee Total:	1.00
Barbara Petzing	Clerical/Admin Support	1.50
	Employee Total:	1.50
		50.00

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY  
 REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE  
 V-990601-02  
 FOR THE PERIOD OF 8/1/97 - 12/31/97**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 11,175	\$ -	\$ 11,175
Services & Supplies	293	-	293
Capital Outlay	<u>-</u>	<u>-</u>	<u>-</u>
Total Direct Cost	11,468	-	11,468
Indirect Cost:	<u>2,194</u>	<u>-</u>	<u>2,194</u>
<b>TOTAL COST</b>	<b><u>\$ 13,662</u></b>	<b><u>\$ -</u></b>	<b><u>\$ 13,662</u></b>

**REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE**  
**EAS FUND 672/R\*STARS PCA 696XX (G-34504-98)**  
**V-990601-02**  
**SUMMARY WORKSHEET**  
**8/1/97 - 9/30/01**

QTR	1st 8/1/97 9/30/97	2nd 10/01/97 12/31/97	3rd 1/01/98 3/31/98	4th 4/01/98 6/30/98	Final Costs FY 98	5th 07/01/98 09/30/98	6th 10/01/98 12/31/98	7th 1/01/99 3/31/99	8th 4/01/99 6/30/99	1st 07/01/99 09/30/99	2nd 10/01/99 12/31/99	3rd 1/01/01 3/31/01	4th 4/01/01 6/30/01	5th 07/01/01 09/30/01	COSTS TO DATE
PS	\$ 6,095.20	\$ 5,079.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11,174.80
SS	28.75	264.73	-	-	-	-	-	-	-	-	-	-	-	-	293.48
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL-DIRECT</b>	6,123.95	5,344.33	-	-	-	-	-	-	-	-	-	-	-	-	11,468.28
<b>FY 98 -19.63%</b>	1,196.49	997.12	-	-	-	-	-	-	-	-	-	-	-	-	2,193.61
<b>TOTAL</b>	<u>\$ 7,320.44</u>	<u>\$ 6,341.45</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 13,661.89</u>
Encumbrances:															-
GRANT AWARD															1,292,352.00
AWARDED TO DATE															500,781.00
(OVER)/UNDER SPENT															<u>\$ 487,119.11</u>

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY  
REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE  
V-990601-02  
FOR THE PERIOD OF 10/1/97 - 12/31/97**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 11,234	\$ -	\$ 18,164
Services & Supplies	224,512	-	233,158
Capital Outlay	<u>-</u>	<u>-</u>	<u>-</u>
Total Direct Cost	235,746	-	251,322
Indirect Cost:	<u>2,205</u>	<u>-</u>	<u>3,566</u>
<b>TOTAL COST</b>	<b><u>\$ 237,951</u></b>	<b><u>\$ -</u></b>	<b><u>\$ 254,888</u></b>

**REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE**  
**EAS FUND 673/R\*STARS PCA 697 (G34505-98)**

V-990601-02

**SUMMARY WORKSHEET**

8/1/97 - 9/30/01

QTR	1st 8/1/97 9/30/97	2nd 10/01/97 12/31/97	3rd 1/01/98 3/31/98	4th 4/01/98 6/30/98	Final Costs FY 98	5th 07/01/98 09/30/98	6th 10/01/98 12/31/98	7th 1/01/99 3/31/99	8th 4/01/99 6/30/99	1st 07/01/99 09/30/99	2nd 10/01/99 12/31/99	3rd 1/01/01 3/31/01	4th 4/01/01 6/30/01	5th 07/01/01 09/30/01	COSTS TO DATE
PS	\$ 6,930.01	\$ 11,234.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	18,164.45
SS	8,645.87	224,512.47	-	-	-	-	-	-	-	-	-	-	-	-	233,158.34
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL-DIRECT</b>	15,575.88	235,746.91	-	-	-	-	-	-	-	-	-	-	-	-	251,322.79
<b>FY 98 -19.63%</b>	1,360.36	2,205.31	-	-	-	-	-	-	-	-	-	-	-	-	3,565.67
<b>TOTAL</b>	<u>\$ 16,936.24</u>	<u>\$ 237,952.22</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 254,888.46</u>
Encumbrances:															-
GRANT AWARD															15,852,656.00
AWARDED TO DATE															2,381,694.00
(OVER)/UNDER SPENT															<u>\$ 2,126,805.54</u>

## TARGET SHEET

This is due to the Original being:

McCormick & Baxter Creosoting Co. Site Remedial Action Project Schedule 1-15

SEATTLE, WA 98101

McCormick & Baxter Creosoting Co. Site Remedial Action Project Schedule 21-29



RECEIVED

FEB 12 1998  
OREGON OPERATIONS OFFICE  
February 11, 1998

DEPARTMENT OF  
ENVIRONMENTAL  
QUALITY

Al Goodman  
U.S. Environmental Protection Agency  
Oregon Operations Office  
811 SW Sixth Ave.  
Portland, OR 97204

Re: McCormick & Baxter Site  
RD/RA Coop. Agreement  
Quarterly Progress Report

Dear Al:

Enclosed is a Quarterly Progress Report for the McCormick & Baxter Creosoting Co. NPL site, as required by Remedial Design/Remedial Action (RD/RA) Cooperative Agreement number V-990601-02, between the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ). The report is for the period October 1 through December 31, 1997.

If you have any questions concerning this report, please let me know.

Sincerely,

*Bill Dana*

William H. Dana  
Project Manager  
Waste Mgmt. & Cleanup Division

enclosure

cc: Steve Campbell, DEQ (w/encl.)  
John Montgomery, E&E (w/o encl.)



811 SW Sixth Avenue  
Portland, OR 97204-1390  
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TDD (503) 229-6993  
DEQ-1

